

IS 374:2019 - Specification for electric ceiling type fans and regulators

The Indian Standard IS 374:2019 establishes specifications for electric ceiling fans, focusing on performance, safety, and testing requirements. This standard applies to single-phase, 50 Hz, ac, ceiling fans, powered by either induction or brushless DC (BLDC) motors, with voltages up to 250V for household use. Aligned with international standards, it includes provisions for BLDC motors and sets minimum air delivery and efficiency requirements. Fan sizes range from 600 mm to 1500 mm, with details provided on materials, blade balance, and motor enclosures. Safety specifications require compliance with **IS 302 (Part 2/Sec 80) : 2017 Household and similar electrical appliances - Safety: Part 2 - 80 particular requirements for fans**, covering aspects like electrical insulation & safety and protection against accidental contact with moving parts. The standard mandates labelling for each fan, including the manufacturer, voltage, and power input, and requires BIS certification for compliance. Speed regulators must reduce fan speed by at least 50% and have multiple positions. Testing methods include air performance evaluation in a controlled chamber and endurance tests for both fans and regulators. Additional requirements for BLDC fans limit harmonic distortion, ensuring minimal electrical interference.